

Pneumatic Loading of Blast Holes

SOV-127-58-3-12/24

manual loading to 32 t - by pneumatic loading method. The work productivity of the charging worker was also increased by 40 to 50%. This method is now generally introduced in the Tyrny-Auzskiy Combine. Pneumatic loading of powdered ammonite will be utilized when blast chambers are used. There are 4 figures and 2 tables.

ASSOCIATION: Severo-Kavkazskiy gorno-metallurgicheskiy institut (The North-Caucasian Mining Metallurgic Institute); Tyrny-Auzskiy Kombinat (The Tyrny-Auzskiy Combine).

1. Mining engineering
2. Explosive charges—Preparation
3. Explosive charges—Performance
4. Pneumatic systems—Equipment

Card 3/3

KOBAKHIDZE, V.N.; LISOVSKIY, I.I.

Work and plane of the miners of Tyrnaus. Cor. shur. no.12:7-  
10 D '61. (MIRA 15:2)

1. Direktor Tyrnauskogo kombinata (for Kobakhidze). 2. Nachal'nik  
rudnika "Molibden" Tyrnauskogo kombinata (for Lisovskiy).  
(Tyrnaus Region--Mining engineering)

OSTROUSHKO, I. A., prof.; YEMEKHYEV, V. I., dotsent; BOBIN, Ye. G.,  
insh.; MEDVEDEV, V. V., insh.; KOBACHIDZE, I. M., insh.;  
KRIVCHIKOV, P. F., insh.; CHUGUNOV, L. F., insh.;  
MASTRUKOV, M. V., insh.

Improving mechanised charging of blastholes. Izv. vys. ucheb.  
sav.; gor. shur. no.9:92-96 '61.

(MIRA 15:10)

1. Severokavkazskiy gornometallurgicheskij institut. Rekom-  
mendovana kafedroy gornogo dela.

(Blasting)

KOBAKHIDZE, V. S.

KOBAKHIDZE, V. S. -- "The Role of the Excursion in the Teaching of Physics and Methods of Conducting It." Cand Pedagog Sci, Telavi State Pedagogical Inst, Tbilisi 1953. (Referativnyy Zhurnal--Fizika, Jan 54)

SO: SUM: 168, 22 July 1954

Category : USSR/General Problems - Problems of Teaching

A-3

Abstr Jour : Ref Zhur - Fizika, No 3, 1957, No 5551

Author : Kobakhidze, V.

Title : Organization of a Practical Course in Electrical Engineering  
(in Secondary School).

Orig Pub : Komunisturi agardisotvis, 1956, No 6, 23-31

Abstract : No abstract

Card : 1/1

KOBAKHIDZE, Ye.

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

Natural conditions and resources of the Adzhar A.S.S.R. Trudy  
Inst. geog. AN Grus. SSR 19:25-39 '62.

(MIRA 16:1)

(Adzharistan--Physical geography)

KOBADKHIDZE, YE. I.

Kobadkhidze, Ye. I. -- "Investigation of the Structural-Mechanical Properties of Suspensions of "Askangel" Depending on the Composition of the Exchange Complex and Equilibrium pH (Values). "Inst of Chemistry imeni P. O. Malikishvili of the Acad Sci Georgian SSR, Tbilisi, 1955. (Dissertation for Degree of Candidate of Chemical Sciences)

SO: Knishnaya Letopis', No. 23, Moscow, PP. 87-104.

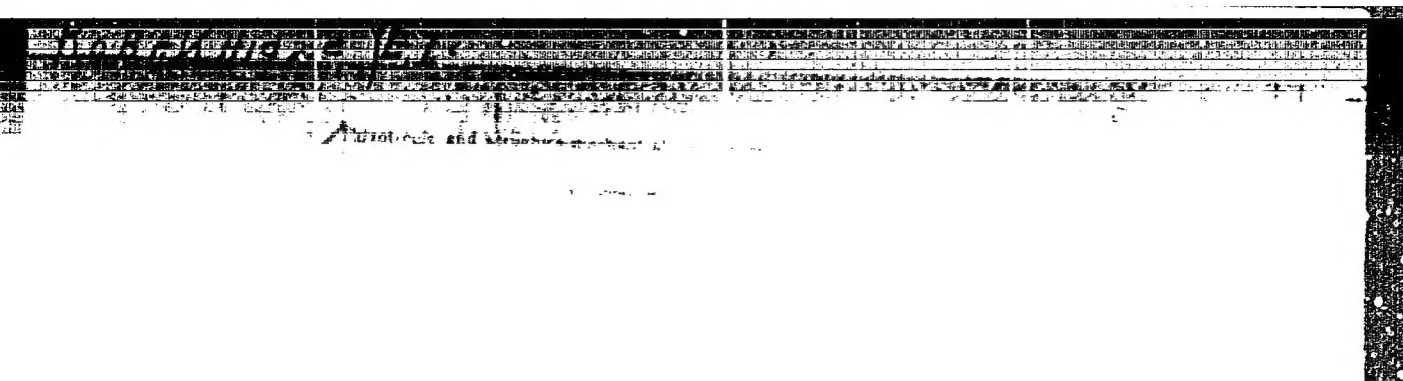
**KORAKHIDZE, Ye.I.; SHISHINASHVILI, M.Ye.**

**Thixotropic structure formation and the elasto-plasto-viscous properties of asccangel suspensions. Koll. shur. 19 no.1:59-67 Ja-F '57. (MLBA 10:4)**

**1. Institut khimii Akademii nauk Grus. SSR im. P.N. Melikishvili, Laboratoriya kolloidnoy khimii, Tbilisi. (Bentonite) (Thixotropy)**

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CIA-RDP86-00513R000723410005-9



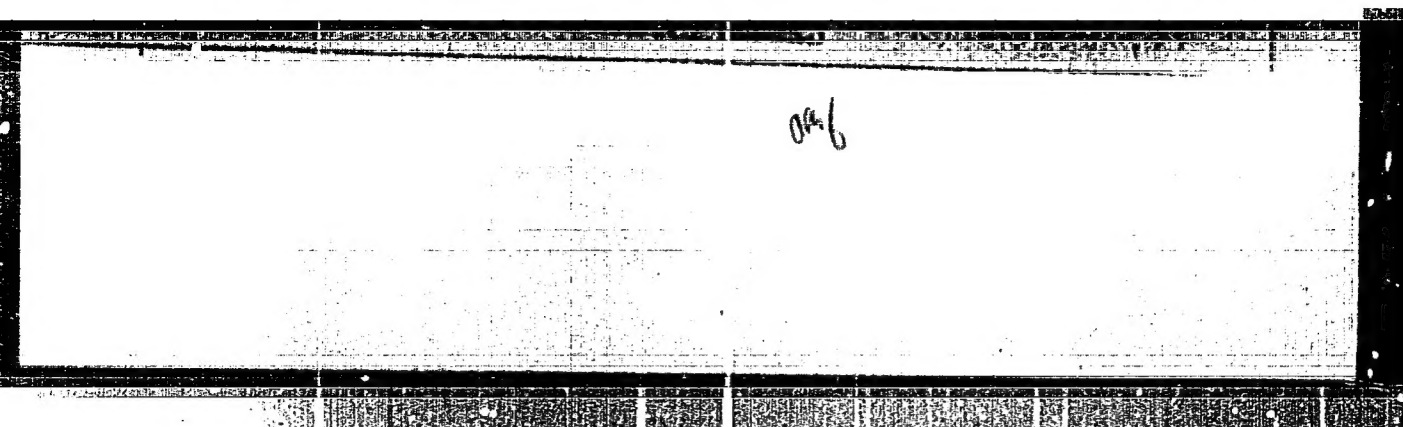
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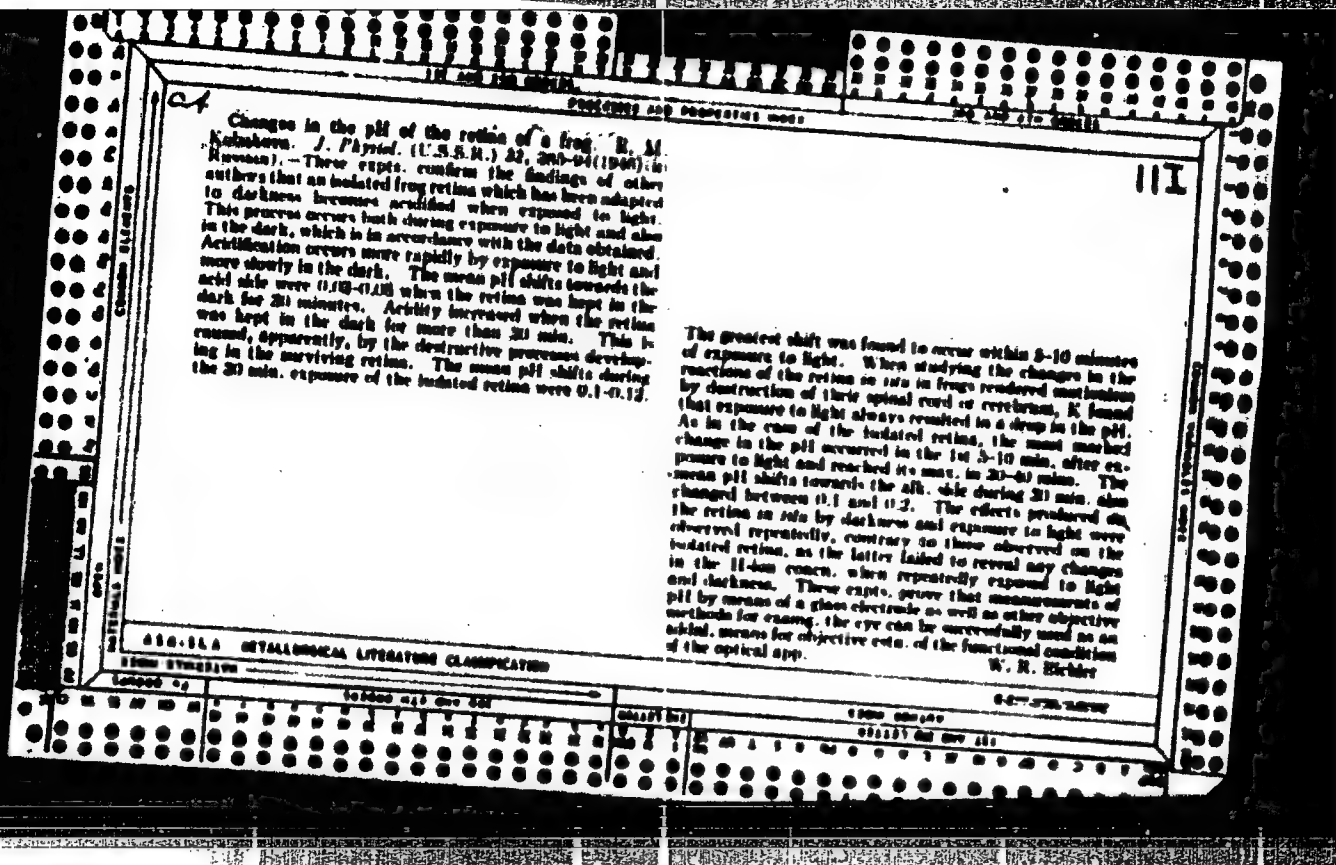
SHISHNIASHVILI, M.Ye.; KOBAKHIDZE, Ye.I.

Structure formation in askangel suspensions. Trudy Inst.khim.AN  
Azerb.SSR 17:60-71 '59. (MIRA 13:4)

1. Institut khimii AN GruzSSR.  
(Askangel)

ZHAROVA, Klavdiya Alekseyevna; KOBAKOV, M.M., kand. tekhn. nauk, otv.  
red.; SKRIPKINA, Z.I., red. izd-va; ANOKHINA, M.Q., tekhn. red.

[Furrow irrigation of steep slopes in the Chu Valley] Tekhnika po-  
liva po borosdam na bol'shikh uklonakh Chuiskoi doliny. Frunse, Izd-  
vo Kirgizskoi SSR, 1961. 180 p. (MIRA 14:11)  
(Chu Valley—Irrigation)



**KORAKOVA, Ye.M.; TROSHIKHIN, V.A., savedyushchiy.**

**Effect of the cerebral cortex upon the motor activity of the small intestine during ontogenesis. Trudy Inst.fiziol. 1:157-155 '52. (MLA 6:9)**

**1. Laboratoriya ontogeneza vysshey nervnoy deyatel'nosti.  
(Brain) (Intestines)**

BA  
A-III

**Effect of electrical stimulation of the cerebellum on the motor functions of the spinal reflexes in teleosts.** E. M. Kolesnikov (J. Physiol., USSR, 1966, 28, 22-29). The effect of electrical stimulation of the cerebellum on the motor activity of the spinal reflexes was studied in rabbits and dogs of various ages. Weak stimulation caused increases in latencies of movement and increased stimulation caused increases in inhibitory effect accommodation times, while strong stimulation had an inhibitory effect accommodation by lowered tones. Medium stimulation may produce both effects in succession, the initial effect being sometimes inhibition and sometimes excitation. The effects are seen from the first day of life, but the threshold is higher in younger than in older animals. After section of the vag the motor effects are greatly reduced or abolished, while the inhibitory effects are increased. After section of the splanchnic the motor effects are strengthened while the inhibitory effects are reduced.

D. H. SMITH

Lab. of the Comparative Ontogenesis of the Central Nervous System  
of the Inst. of Physiology in I.P. Pavlov, Acad Sci. USSR

KLYAVINA, M.P., KOBAKOVA, Ye.M., STEL'MAN, L.N., TROSHININ, V.A.

The speed of formation of conditioned reflexes in dogs in ontogenesis/  
[with summary in English]. Zhur.vys.nevr. deiat. 8 no.6:929-936  
M-D '58 (MIRA 12:1)

1. Laboratory of Comparative Ontogenesis of the Higher Nervous Activity,  
Pavlov Institute of Physiology, USSR Academy of Sciences, Koltushi.

(REFLEX, CONDITIONED,

rate of form. in young dogs, age factor (Rus))

(AGING, effects,

on conditioned reflex form, rate in young dogs (Rus))

USSR / Human and Animal Physiology (Normal and Pathological).  
APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-9

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60471

Author : Kobakova, Ye. M.

Inst : Institute of Physiology, AS USSR

Title : The Analysis of the Effect of the Central Nervous  
System on the motor Function of the Small Intestine  
in Ontogenesis

Orig Pub : Tr. In-ta fiziol. AN SSSR, 1957, 6, 437-445

Abstract : A unilateral vagotomy or sympatiectomy in rabbits  
of different age groups did not have any effect on the  
intestinal movements (IM). A bilateral vagotomy  
inhibited, and a bilateral sympatiectomy stimulated,  
stronger and longer IM in older animals. Adrenalin and  
atropine, given intravenously, inhibited IM from the  
first days of life. Its effect increased with age.

Card 1/1 ~~Lab. sravnitel'nogo ontogeneza vysshey nervnoy~~

deyatel'nosti

KOBAKOVA, Ye.M.; KOZLOVA, L.N.; TROSHIKHIN, V.A.

Effect of various doses of gamma rays from radioactive cobalt on the development of a rabbit in ontogenesis. Nauch. soob. Inst. fiziol. AN SSSR no.1:163-165 '59. (MIRA 14:10)

1. Laboratoriya sravnitel'nogo ontogeneza vysshey nervnoy deyatel'nosti (zav. - V.A. Troshikhin) Instituta fiziologii imeni Pavlova AN SSSR.

(GAMMA RAYS—PHYSIOLOGICAL EFFECT) (ONTOGENY)



KORAKOVA, Ye.M.

Influence of the act of eating and of alimentary conditioned reflexes  
on the motor activity of the small intestine in dogs in ontogenesis.  
Trudy Inst. fiziol. 9:87-94 '60, (MIRA 14:3)

1. Laboratoriya sravnitel'nogo ontogeneza vysshey nervnoy deyatel'nosti  
(zaveduyushchiy - V.A.Troshikhin) Instituta fiziologii im. I.P.Pavlova.  
(DIGESTION) (REFLEXES)

VA'ILOVA, N.M.; KOBKOVA, Ye.M.; OBRAZTSOVA, G.A.; TROSHIKHIN, V.A.

Characteristics of the individual properties of the higher nervous system in dogs based on the alimentary and defensive methodologies. Nauch.sob. Inst.fiziol. AN SSSR no.3:25-29 '65. (MIRA 18:5)

1. Laboratoriya sravnitel'nogo ontogeneza vysshey nervnoy deyatel'nosti (zav. - G.A.Obraztsova) Instituta fiziologii imeni Pavlova AN SSSR.

BORSTNAR, Marijan; KOBAL, Mara; VITOROVIC, Moncilo

Thromboembolism of the pulmonary artery during treatment with neuroleptics. Zdrav. vestn. 34 no.14-7 '65.

1. Bolnisanica za dusevne in zivne bolezni Ljubljana-Polje (direktor: prof. dr. Janez Kanoni).

Kobaladze, M. G.

USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Ref Zhur - Khimiya, No 4, 1957, 12059

Author : Born G.I., Vayes K.F., Kobaladze M.G.

Inst : Commission on Analytical Chemistry of the Academy of Sciences  
USSR

Title : On Resolution of Some Analytical Problems Pertaining to Rare  
Earths by Means of Radioactivation Analysis

Orig Pub : Tr. Komis. po analit. khimii AN SSSR, 1956, 7(10), 104-118

Abstract : Considered is the possibility of determining some rare earth elements by the method of radioactivation analysis, and it is shown that by simple auxiliary means it is possible to carry out their determination with sufficient accuracy in a number of mixtures. To measure the activity of the irradiated preparations use was made of beryllium-radium (500 mg Ra) a source of neutrons and a unit of B type with an aluminum B-1 counter tube. Described is the procedure of determining Eu in samarium, Dy in yttrium earths free from Gd, and in those containing Gd, of determining Sm in cerium earths free from Eu, and determination of Gd in yttrium earths low in Eu.

Card 1/1

KOBALADZE, S.G.; CHEYSHVILI, R.P.

Results of the use of chloracizin. Trudy Inst. klin.'i eksper.  
kard. AN Grus. SSR 8:441-443 '63. (MIRA 17:7)

1. Kafedra faku'tetskoy terapii lechetnogo fakul'teta  
Gosudarstvennogo meditsinskogo instituta, Tbilisi.

KOBAL'CHUK, L.M., kand. tekhn. nauk; BASKAKIN, Ye.N.; BELOZEPOVA,  
A.S.; ZAGOSKINA, O.V., nauchn. red.

[Mechanized dovetail gluing of wood] Mekhanizirovannoe  
skleivanie drevesiny na zubchatyi ship. Moskva, TSentr.  
nauchno-issl. in-t informatsii i tekhniko-ekon. issledovani  
po lesnoi, tselliulozno-bumazhnoi, derevoobrabatyvaiushchei  
promyshl. i lesnomu khoziaistvu, 1963. 43 p.

(MIRA 17:5)

KOBALENKO, P. N.

"A Method of Combined Electrochemical Analysis." Dr Chen  
Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 12 Nov  
54. (VM, 1 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

KOBALENKO, V.I.

Kobalenko, V.I. "Synthesis of diethyl and methyl-ethyl ethers of pyrocarbonic acid by a new method," (reference), Soobshch. o nauch. rabotakh chlenov Vsesoyuz. Khim. o-va im. Mendeleeva, 1948, Issue 2, p. 24

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949



YEZERSKIY, M.D.; ALEKSEANDROV, I.K.; SMIGEL'SKIY, P.K.; KOVALENKO, V.I.;  
LUKASHEVICH, A.S.; KUZNETSOV, M.I.

Improving postal service. Vest. svyazi 15 no.3:16-18 Nr '55;

(MLRA 8:5)

1. Nachal'nik otдела pochtovoy svyazi Ministerstva svyazi Usbekakoy SSR (for Yezerskiy). 2. Zamestitel' nachal'nika Severo-Osetinskogo upravleniya svyazi (for Aleksandrov). 3. Nachal'nik Kabardinskogo upravleniya svyazi (for Kovalenko). 4. Nachal'nik strakhovogo otдела Yuzhno-Sakhalinskoy kontory svyazi (for Lukashovich). 5. Zamestitel' nachal'nika Pensenskogo oblastnogo upravleniya svyazi (for Kuznetsov).  
(Postal service)

~~USSR/Geophysics -- Seismographic Prospecting~~ KOBALYUSKAYA, N. A.

May/Jun 53

"Review of 'Instructions for Seismic Prospecting,' (I. Ferzen and A. Yeninam'yeva, reviewers)

Iz Ak Nauk SSSR, Ser Geofiz, No 3, pp 271-274

Review the symposium "Instruktatsiya po geofizicheskoy sayasnoy razvedke," a compilation of works contributed by A. S. Kumpan, V. N. Mitrofanov, N. A. Kobalevskaya, T. B. Sokolova, K. S. Andreyeva in participation with I. I. Gurvich, N. G. Shridt, and G. N. Shablinskiy, and edited by I. K. Kupolov-Yaropolk. Published by the State Geology Press, Moscow, 1952, 94 pp, 5,000 copies, 2.90 rubles.

258T90

KOBALOVSKIY, M. V.

137M/5  
632.1  
.37  
1952

KOBALOVSKIY, M. V.

Stankov, Sergey Sergeyevich. Nashi lekarstvennyye rasteniya  
(Our medicinal plants, by) S.S. Stankov i M. V. Kobalovskiy . 2.  
ispr. i dop. izd. Gor'kiy, Gor'kovskoye Oblastnoye Gos. izd-vo,  
1952. 242 p. illus. Bibliography: p. 211-224

KOPAL'EVSKIY, V. L.

Zhilishchnoye Stroitel'stvo V Pyatoy Pyatiletke (Housing in the  
Fifth Five Year Plan) Moskva, Gospolitizdat, 1954.  
77 p. Illus., Tables.

So: N/5  
783.3  
.K811

KOBALOV, A.D., starshiy veterin.vrach

Attacking winged animal pests. Veterinariia 41 no.3:54-55 Mr '65.  
(MIRA 18:4)

1. Ministerstvo proizvodstva i zagotovok sel'skckhozyaystvennykh  
produktov Severo-Osetinskoy ASSR.

ACC NR: AP6033834 SOURCE CODE: UR/0139/66/000/005/0019/0023

AUTHOR: Kobanov, M. V.

ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-  
tekhnicheskiy institut)

TITLE: Attenuation of a light signal in a dispersive medium Part 4 Interference  
effects in light scattering

SOURCE: IVUZ. Fizika, no. 5, 1966, 19-23

TOPIC TAGS: light scattering, particle scatter, signal propagation, light beam,  
particle interference, scattering factor

ABSTRACT: The author presents a quantitative evaluation of effects related to the interference of scattered waves by a combination of particles. It is shown that in the propagation of a collimated light beam in a turbid medium, there occurs an additional elongation of the indicatrix of scattering a system of particles compared with that for a single particle due to the interference effects. The resulting interference "tongue" is concentrated at a very small angle in the direction of light beam incident on the system of particles and amounts to a few minutes over

Card 1/2

ACC NR: AP6033834

a wide range of experimental conditions. Equations were derived for an instrumental scattering factor in the case of light dispersion on volumes in the shape of a sphere, a disc, and a rod. An analytical mode of the equations obtained indicates the possibility of concentration effects in experiments in a turbid medium. Orig. art. has: 12 formulas and 1 table. [Based on author's abstract]

SUB CODE: 20/ SUBM DATE: 09Jan65/ ORIG REF: 004/ OTH REF: 002/

Card 2/2

LEONIDOV, Mikhail Fedorovich; SIDOROV, P.P., redaktor; KOBANOV, Ye.M.,  
redaktor; BOGOYAVLENSKIY, A.V., reitsent; KRASHIYA, A.K.,  
tekhnicheskii redaktor

[Operating floating cranes in city harbors on a cost accounting  
basis] is opyta raboty plovuchikh kranov Gor'kovskogo porta na  
khozraschete. Moskva, izd-vo "Rechnoi transport," 1955. 40 p.  
(Cranes, derricks, etc.) (MLA 9:3)



YERMOLAYEV, P.S., kand.tekhn.nauk; KOBANOV, V.I., inzh.

New oscillating mill for grinding building materials. Stroi.i  
dor.mash. 7 no.2126-30 F '62. (MIRA 15:5)  
(Milling machinery)

KOBANOVA, L.M., PONOMAREV, V.D.

Precipitation of arsenic from zinc and cadmium sulfate  
solutions. Trudy Akd. GIMII AN Kazakh. SSR no.3:136-156  
'56. (MLRA 10:2)

(Zinc--Metallurgy) (Cadmium--Metallurgy) (Arsenic)

KOBARELOV, V.

"Improving Hygiene in Food Enterprises." p. 2,  
(ZDRAVEN FRONT, No. 50, Dec. 1954, Sofiya, Bulgaria)

SJ: Monthly List of East European Accessions, (EEAL), LC, Vol. 4  
No. 5, May 1955, Uncl.

MOSCHEVA, P. [Mosheva, P.]; TOPALOVA, E.; SAGORTSCHEV, B. [Zagorchev, B.];  
KOBARELOVA, S.

Separation of indium and zinc through ion exchange. Doklady BAN  
16 no.1:73-76 '63.

1. Vorgelegt von Akademienmitglied D. Ivanoff [Ivanov, D.].

BULGARIA/Analytic Chemistry. Analysis of Inorganic  
Substances.

1

Abs Jour: Ref Zhir-Khim., No 23, 1958, 77282.

Author : Kosharelova St., Trifonov As.

Inst : Institute of Chemistry and Technology.

Title : Polarographic Determination of Cobalt in Ores  
and Concentrates.

Orig Pub: Godishnik Khim.-tekhrol. in-t, 1956 (1957), No 1,  
261-270.

Abstract: A polarographic method including the preliminary  
precipitation of  $\text{Fe}^{3+}$  in the shape of  $\text{Fe}(\text{OH})_3$   
from pyridine buffer medium, the wave of  $\text{Fe}^{3+}$   
preceding the reduction wave of  $\text{Co}^{3+}$ , was  
applied to the determination of Co in ores and  
concentrates. A sample of the ore to be ana-

Card : 1/3

KOBARELOVA, S+

COUNTRY : BULGARIA B  
CATEGORY : Physical Chemistry. Electrochemistry  
ABS. JOUR. : RZKhim., No. 1 1960, No. 620  
AUTHOR : Trifonov, A.; Kobarelova, S.  
INST. : Bulgarian AS, Chemical Institute  
TITLE : On Certain Phenomena in the Course of Separation of Cobalt on the Mercury Drop Electrode.  
ORIG. PUB. : Izv. Khim. in-t. B<sup>ulg.</sup> AN, 1958, 6, 229-233  
ABSTRACT : On polarograms of the reduction of the  $\text{Co}^{+2}$  ion on the Hg drop electrode in the presence of small quantities of  $\text{Co}^{+3}$  against a background of  $\text{LiCl}$ ,  $\text{KCl}$  and  $\text{BaCl}_2$ , an anomalous wave (AW) is observed with a potential 0.2 v more positive than the wave of the reduction of  $\text{Co}^{+2} \rightarrow \text{Co}$ . The height of AW increases with the dilution of the indifferent electrolyte and decreases according to a linear law with the

CAPD:

1/3

MOSHEVA, P.; TOPALOVA, E.; ZAGORCHEV, B.; KOBARELOVA, St.

Separation of indium from zinc by ion exchange. Godishnik  
khim tekhn 9 no. 1:21-29 '62 [publ. '63].

TRIPONOV, As.; KOBARELOVA, St.

On some phenomena in separating cobalt on the dropping mercury electrode. II. Izv Inst khim BАН 7:133-144 '60.

(KAI 10:9)

1. Khimicheski institut pri BАН i khimikotekhnologicheski institut v Sofia.

(Cobalt) (Electrodes, Dropping mercury)



STRELYANCO, Y.I.; RESNICHENKO, Z.V.; GERASHCHENKO, Ye.I.; SEMYUNOV, B.S.;  
SHISARENKO, M.V.; KOBAROV, V.A.; SPICHKIN, I.M.; GORBAČEV, Ye.I.;  
UVAROVA, A.Y., *tekhnicheskij redaktor*.

[Spare parts for the S-4 self-propelled combine; a reference catalog]  
Zapaznye chasti samokhodnogo kombaina S-4; spravochnik-katalog.  
Moskva, Oos.nauchno-tekhnicheskoe izd-vo mashinostroit.lit-ry, 1956.  
179 p. (MLBA 9:5)

(Combines (Agricultural machinery))

KOBAROV, Vasilii Aleksandrovich; RUMYANTSEV, Yevgeniy Konstantinovich;  
PESTRIANOV, A.I., red.; DEYEVA, V.M., tekhn. red.

[Concise manual on the SK-3 and SK-4 combines] Kratkii spravochnik po kombainam SK-3 i SK-4. Moskva, Sel'khozizdat, 1963. 319 p. (MIRA 16:7)  
(Combines (Agricultural machinery))

pounds are better than the previously employed luminescent bleaches; styryl derivatives and bis-naphtotriazoles, based on 4,4' - diaminestylbene-2,2' - sulfo acid, since the fluorescence of the latter has a color from green-blue to yellow-green. A. Goryzhak

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723410005-

Card : 1/1

KOBASKO, N.I., PROKHORENKO, N.I.

Effect of the rate of quenching during hardening on the formation of cracks in steel 45. Metalloved. 1 term. obr. met.  
no.2:53-54 F\*64 (MIRA 17:7)

1. Kiyevskiy zavod Stroydormash.

6

Anomalous Azbel-Kaner resonance effect in lead telluride.

A. Kobayasi (20 minutes).

Chemico-analytical methods of determination of micro-impurities in doped monocrystals of the type  $AlGaV$ . I. B. Mizetskaya, L. M. Kalashnik, O. P. Kulik, I. G. Chernyy.

Doping of cubic monocrystals of  $CdS$  in the process of their growth and some physical characteristics of the resulting samples.  
N. I. Viterikhovskiy, I. B. Mizetskaya.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

TRAKHTENGERTS, Anatoliy Yakovlevich; KOBAYENKOV, Vladimir Fedorovich;  
MOSEKOVSKIY, F.A., redaktor; SAVEL'YEV, V.I., redaktor; IARIONOV,  
G.Ye., tekhnicheskii redaktor

[Accounting for the material and equipment supply in major  
construction] Uchet predmetov material'no-tekhnicheskogo snabzhe-  
niia v kapital'nom stroitel'stve. Pod obshchei red. F.A.Moskovsko-  
go. Moskva, Gos. energ. izd-vo, 1956. 135 p. (MIRA 9:9)  
(Construction industry--Accounting)

KOBAYENKOV, V. F.

Prchnyshlennyy uchet na elektrostantsiyakh, zavodakh i torfopredpriyatiyakh "Industrial Accounting in Power Plants, Factories and Peat Processing Plants," by A. Ya. Trakhtengerts i V. F. Kobayenkov. Moskva, Gosenergoizdat, 1958.

309 p. diagrs., tables.

"Literatura": p. 311

(Telecommunication Journal)

Give detailed description of a device of type PA 1.7.

IOFFE, V.I., inzh.; KOBAYLOV, A.P., inzh.

Manual for the DBh-54 holder for welding in a carbon dioxide atmosphere. Mont. 1 spets. rab. v stroi. 25 no.3:26 Mh '63.  
(MIRA 16:2)

1. Trest Yuzhstal'konstruktsiya.  
(Gas welding and cutting—Equipment and supplies)



PLATONOV, KORAZEV, I.

Potatoes

Storing potatoes. Nauka i zhizn' 20, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

KORAZNY, Ivan Andreevich; OKIMOV, V.N., red.; MAKHOVA, N.N., tekhn. red.;  
KURILINA, Z.P., tekhn. red.

[Practical laboratory exercises in organic chemistry] laboratorno-  
prakticheskie zadaniia po organicheskoi khimii. Moskva, Gos.  
izd-vo sel'khoz. lit-ry, 1958. 187 p. (MIRA 11:7)  
(Chemistry, Organic--laboratory manuals)

BARTOSZEWICZ, Ryssard; OSTROVSKIY, Ya. [translator]; STOLIAREN, Ya.  
[translator]; KOBAYEV, I.A., red.

[Methods of deoxidizing organic combinations] Metody vosstanov-  
leniya organicheskikh soedinenii. Pod red. I.A. Kobayeva. Mo-  
skva, Izd-vo inostr. lit-ry, 1960. 406 p. (MIRA 14:11)  
(Chemistry, Organic) (Reduction, Chemical)

VEDERNIKOV, M.; PRIZHKO, M.; KOBAZEV, V., prepodavatel'

Major chemical industrial complexes should have qualified personnel,  
Prof.-tekh.obr. 20 no.10:12 O '63. (MIRA 16:12)

1. Direktor tekhnicheskogo uchilishcha No.4 g.Severodonetska,  
Luganskaya obl. (for Vedernikov). 2. Zamestitel' direktora  
tekhnicheskogo uchilishcha No.4 g. Severodonetska, Luganskaya obl.  
(for Prishko). 3. Tekhnicheskoye uchilishche No.4 g. Severodonetska,  
Luganskaya obl. (for Kobazev).

FURMAN, A.O.; KOBAYEV, Ye.I.

Using the "TISS" radimeter for recording soft Beta radiation.  
Isv. TSKhA no.21232-233 '61. (MIRA 14:8)  
(Beta rays) (Radimeter)

S/263/62/000/003/013/013  
1004/1204

AUTHOR: Furman, A. O. and Kobazev, Ye. I.

TITLE: Use of a "THCC" ("TISS") type radiometer for measurement of soft beta radiation

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 3, 1962, 50, abstract 32.3.316. "Izv. Timiriazevsk. s.-kh. akad.", 1961, no. 2, 232-233

TEXT: In the radio-isotopes laboratory of TCXA (TSKhA), based on the T4 (TCh) type of detector for the "THCC" ("TISS") radiometer, transducer T4-M (TCh-M) was developed which enables widening the energy range of the device so as to include the soft beta radiation up to the energy of approx. 40 l.ev. In the new detector, instead of the three cylindrical counters CTC-5 (STS-6), six end-type counters T-25-БФЛ (T-25-BFL) (with parallel connection of anodes) were vertically installed, fixed in a metallic dismountable clip mounted in the transducer casing. The main "TISS" unit supplies the 1500 V voltage to the anodes. The principal and the wiring-diagram of the transducer were adapted to the design features of the T-25-BFL. The receiving window of the detector was covered with a thin polyethylene sheet (1 to 2 mg per cm<sup>2</sup>), which safeguarded the counters against dust and radioactive contamination. An electrical diagram of the detector is given. Beta radiation of C<sup>14</sup>, S<sup>35</sup>, and Ca<sup>45</sup> may be measured by means of this detector.

[Abstracter's note: Complete translation.]

Card 1/1

FURMAN, A.O.; KOBACHEV, Ye.I.

Apparatus for measuring radioactive preparations of low activity  
by hard beta rays. Izv. TSIHA no.5:195-202 '62. (MIRA 16:7)

(Radiometry)

GARNETSKIY, V.A., aspirant; KOBAYEV, Is.I., starshiy laborant; RACHINSKIY, V.V., doktor khimicheskikh nauk, prof.; FURMAN, A.O., starshiy prepodavatel'

Variant of the automatic apparatus for recording the elution and column curves of the distribution of tagged elements in chromatographic analysis. Izv. TSNA no.4:224-229 '63.  
(MIRA 17:1)



KOBBASYUK, A.S., kand.tekhn.nauk, dots.

Gasification of gas coal in a cyclone furnace. Izv. vys. uchheb.  
zav.; energ. 4 no.2:62-74 F '61. (MIRA 14:3)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy  
promyshlennosit.  
(Coal gasification)

KOBCHENKO, H.A., ingh.

The 2KKN-2,8 ringed-toothed rollers. Trekt. 1 sel'khoz mash. no.8:  
30 Ag '64. (MIRA 17:11)

1. Tsentral'no-Chernozemnaya mashinostpyatel'naya stantsiya.

KOBCHIKOVA, I.

Kobchikova, I. and Mikhaylov, G. "How to plan the production of a collective farm"  
(Consultation), Sel. khoz-vo Tadzhikistana, 1949, No. 1, p. 37-40.

So: U-3261, 10 April 53, (Letonia 'Zhurnal 'nykh Statey, No. 12, 1949).

KOBCHIKOVA, I.

19979 KOBCHIKOVA, I. Soveshcheniye po voprosam organizatsii i opgary truda v. kolkhozakh. /N vo sel' skogo khozyaystva SSSR. 1949 g.7 Sots. sel. khoz-vo, 1949, No. 6, s. 59-61.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

KOBCHIKOVA, I. A.

Organizatsiya i oplata truda v polevodcheskoy brigade kolkhoza (Organization and wages of labor in the farming brigade of a kolkoz, by) I. A. Kobchikova (i) M. G. Solenova. Moskva, Sel'khozgiz, 1953.  
171 p. illus., tables.

N/5  
722.101  
.K81

КОБОЧИКОВА Л.А.

ТЕРЕНТ'ИН, М.Л.; ОСАД'КО, М.П.; БРАГЛЕСКИЙ, Б.И.; СЛОБОДИН, В.М.; ФИШМАН, З.А.; ЛЕВИН, И.Я.; ТЫНЬКОВ, М.П.; БАДИР'ЯН, Г.Г.; ТИУТИН, В.А.; АБРАМОВ, В.А.; ФРАЙН, С.В.; КОБОЧИКОВА, Л.А.; КАРНАУКОВА, Ye.I.; ОБОЛЕНСКИЙ, К.П.; ИЛ'ИН, С.А.; ГАВРИЛОВ, В.И.; ФРЕЙДМАН, С.М.; КАЛАШНИКОВА, В.С., редактор; ЛАПИДУС, М.А., редактор; РАКИТИНА, Ye.D., редактор; ФЕДОТОВА, А.Ф., технический редактор

[Manual for students of collective farm economy] В помощь  
исходящим экономик колхозов. Москва, Гос. изд-во сельхоз.  
лит-ры, 1956. 423 п. (MIRA 10:1)  
(Collective farms)

KOLESMIN, S.G., red.; KOTOV, P.G., red.; KOBCHIKOVA, I.A., red.; MEL'NIKOV, V.F., red.; OSAD'KO, M.P., red.; CHUVIKOV, V.A., red.; KALASHNIKOVA, V.S., red.; THERSHCHENKO, N.I., red.; FEDOTOVA, A.F., tekhn.red.

[New developments in collective farm organization and wages] Novoe  
v organizatsii i oplate truda v kolkhosakh. Moskva, Gos.isd-vo  
sel'khoz.lit-ry, 1957. 319 p. (MIRA 11:1)  
(Wages) (Collective farm)

**КОБЧИКОВА, И.А.**

[Material incentives for collective-farm workers to produce good crops] Material'noe pooshohrenie kol'khoznikov za vysokie urozhai.  
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 68 p. (MIRA 13:8)  
(Wages) (Collective farms)



KOBE, J.

"Machine-tool construction" by H. Mauri. Pt. 2. 6th ed. Reviewed by  
J. Kobe. Stroj vest 9 no.4/5:133 0 '63.

KOBE, J.

"Technology of mounting the machines, motors, and installations" by  
M.P. Novikov. Reviewed by J. Kobe. Stroj vest 7 no. 4-5:124 0 61.

KOBE, J.

"Machine-tool construction" by H.E. Scheibe. Reviewed by J. Kobe.  
Stroj vest 8 no.4/5:116 0 '62.

GABELOVA, N.A.; KOBEKOV, V.V.

Muscular protein structure in connection with the muscular contraction problem. *Analele biol* 17 no.2:29-46 Mr-Apr '63.

KOBECKI, R.

An investment plan of veterinary service for 1953. p. 178. MEDYCINA WETERYNARYJNA  
Vol. 9, no. 4, April, 1953.

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 4, April, 1954.

1. KOBEK, S. I.
2. USSR (600)
4. Irrigation Canals and Flumes
7. Control of water loss from irrigation canals.  
Dost. sel'khoz. No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KOBEK, S.I.; GNIPPA, A.V., redaktor; YELIZAVETSKIY, V.S., redaktor;  
PETRUSHKO, Ye.I., tekhnicheskii redaktor

[Operation of a farm's irrigation system] Eksploatatsiia vnn-  
trikhsiaistvennoi orositel'noi seti. Moskva, Gos.izd-vo  
selkhoz.lit-ry. 1955. 148 p. (MLRA 811)  
(Irrigation farming)

ZAMARIN, Ye.A., doktor tekhn. nauk., prof.; ZHURAVLEV, G.I., kand. tekhn. nauk.; ~~KORNE~~ ~~S.~~ ~~and~~ kand. tekhn. nauk.; KREMONETSKIY, M.D., kand. tekhn. nauk.; NIKOLAYEV, I.G., inzh., nauchnyy red.; GOLUBENKOVA, L.A., red. izd-va; PERSON, M.N., tekhn. red.

[Hydraulic structures in agriculture] Sel'skokhoziaistvennye gidrotekhnicheskie sooruzheniya. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekt., 1957. 289 p. (MIRA 11:7)

(Hydraulic engineering)



VASIL'YENVA, I.A., dotsent; KOBEK, S.I., dotsent; KORYUKIN, S.N., starshiy  
prepodavatel'; CHAYTORAYEV, A.I., dotsent; POPOV, K.V., prof.,  
red.; KRZHIZHANOVSKAYA, O., red.; SMIRNOVA, Ye., tekhn.red.;  
PROKOF'YENVA, L., tekhn.red.

[Practical laboratory work in a course of the study of hydraulic  
structures] Laboratorno-prakticheskie zaniatiia po kursu gidro-  
tekhnicheskikh sooruzhenii. Pod red. K.V.Popova. Moskva, Gos.  
izd-vo sel'khoz.lit-ry, 1959. 143 p.

(MIRA 14:1)

(Hydraulic structures)

*NOBKO, N. P.*

USSR/Atomic and Molecular Physics - Liquids, D-8

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34493

Author: Kobeko, N. P.

Institution: None

Title: Glass as a Homogeneous System, Capable of Attaining an Equilibrium State

Original Periodical: Collection: Stroyeniye Stekla, Moscow-Leningrad, Academy of Sciences USSR, 1955, 296-298

Abstract: None

/ of /

- 1 -

MALISH, V. [Malysh, V.]; BALAKIREV, O. [Balakiriev, O.]; KOBELETSKIY, Ya.  
[Kobelets'kiy, Ya.], red.; LOBKOV, A., kand.tekhn.nauk

News of soviet science and technology. Znan. ta pratsia no. 12:16  
D '60. (MIRA 14:4)

1. Redaktor Derahtitvidavu USSR (for Kobeletskiy).  
(Technological innovations)

IL'IN, I.I., kand. med. nauk (Sevastopol'); BURSHEYN, Yu.Ya. (Sevastopol');  
KOBELEV, A.A. (Sevastopol')

Treatment of chronic prostatitis with intrafocal introduction of  
corticosteroid hormones. Urologia. no.5:38-41 '64. (MIRA 18:8)

KOBIL...  
GERSHOV, M.I.; AMPLINOV, V.M.; KOBRIN, A.P.

Peroxide bleaching of cotton and linen fabrics. Tekst.prom.15  
no.10:42-43 0'55. (MLRA 8:12)  
(Bleaching)

ROZIKOV, F., alessar'-sborshchik

Lengthening the life of machine parts. Prof.-tekh. obr. 18  
no.5:14 My '61. (MIRA 14:8)

1. Remeslennoye uchilishche No.15, g. Khar'kov.  
(Lathes)

RUBCHINSKIY, A.V.; KOBKIN, F.S.; MANTROV, V.M.

Methods for measuring mercury vapor density. Trudy VNI no.63:  
170-191 '58. (MIRA 11:11)

(Mercury--Density)

KOBELEV, P.S., inzh.; NAUMENKO, Yu.M., inzh.; RUBCHINSKIY, A.V., kand.  
~~tekhn. nauk~~

Errors of the Mak-Leod system pressure gauge. Elektrotehnika  
36 no.8:56-57 Ag '64. (MIRA 17:9)



66697

SOV/109-4-8-17/35

24,2120

AUTHORS: Rubchinskiy, A.V., Kobelev, P.S. and Mantrov, V.M.

TITLE: Application of the Oscillations on a Small Anode to the Measurement of Gas or Vapour Density

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 8, pp 1311 - 1315 (USSR)

ABSTRACT: The method is based on the correlation existing between the amplitude of the oscillations appearing in a low-pressure discharge on a small anode and the density of the gas or vapour in the discharge (Ref 1). The density is measured by introducing a small anode into a discharge. This is usually in the form of a molybdenum or tungsten wire having a diameter ranging from 0.01 to 2 mm and a length of several mm. The source of electrons necessary for the maintenance of the discharge is a small auxiliary arc or a heated cathode. A positive voltage is applied to the anode through a suitable limiting resistance. When the current density at the small anode is greater than 0.05 to 0.1 A/cm<sup>2</sup>, the voltage at the anode (with respect to the cathode) has a form of high-frequency oscillations

Card1/3

66697

SOV/109-4-8-17/35

Application of the Oscillations on a Small Anode to the Measurement of Gas or Vapour Density

having an amplitude of a few tens or hundreds of volts and a frequency in the range of  $10^4$  to  $10^6$  c.p.s. (Figure 1). It is possible to construct suitable calibration curves for the measurement method. These should show the dependence of the oscillation amplitude at the anode on the gas or vapour density. For mercury, the curves can be taken by measuring the oscillation amplitude by an oscillograph at various temperatures of the cooling water which defines the pressure of the saturated vapour. Typical calibration curves  $A = f(p)$  for three different values of discharge current are shown in Figure 2. The supply source to the tube should be chosen suitably; when the amplitudes of the oscillations are of the order of 300 to 400 V, the supply voltage must be about 800 to 1 000 V. Calibration curves  $A = f(p)$  for mercury vapour with the anodes of different diameters are shown in Figure 3. The accuracy of the calibration curves is limited by the accuracy in the measurement of the amplitude and the temperature of the cooling water. It is thought that

Card2/3

56697

SOV/109-4-8-17/35

Application of the Oscillations on a Small Anode to the Measurement of Gas or Vapour Density

the error in the measurement does not exceed 10%. The small-anode oscillations appear not only in mercury but in hydrogen, rare gases and various other gases. In all cases, the amplitude of the oscillations decreases as the gas pressure is increased. This can be seen from Figure 3, which shows the amplitude of the oscillations for Xe, Kr, Ar, Ne and H<sub>2</sub>; the anode in this case had a diameter of 0.2 mm and a length of 3 mm. The discharge was operated by means of a d.c. source and the electrons were provided by means of a heated tungsten cathode. There are 5 figures, 1 table and 2 references, 1 of which is Soviet and 1 German.

4

SUBMITTED: March 5, 1959

Card 3/3

— KOBELEV, P.S., inzh.; NAUMENKO, Yu.M., inzh.

Measurement of vacuum in a pumpless mercury-arc rectifier.  
Vest. elektroprom. 33 no.11:58-60 N '62. (MIRA 15:11)  
(Mercury-arc rectifiers)

KOBELEV, F.S., inzh.; NAUMENKO, Yu.M., inzh.

Absorption of an inert gas in gas-filled mercury rectifiers.  
Elektrotehnika 35 no.2:41-42 F '64. (MIRA 17:3)

KOBELEV, G.V., inzh.; MAKEYEV, S.A., rel.; SOSINA, A.L., tekhn. red.

[Collected inventions; automotive transportation and highways]  
Sbornik izobretenii; avtomobil'nyi transport i shosseinye dorogi. Moskva, Tsentr. biuro tekhn. informatsii, 1961. 166 p.  
(MIRA 15:7)

1. Russia (1923- U.S.S.R.) Komitet po delam izobreteniy o ot-krytiy.

(Transportation, Automotive) (Motor vehicles)  
(Road machinery)

KOBEL'EV, I. A.

"Method for the Determination of the Altitude of Individual Clouds in Accordance With the Data of Pilot-Balloon and Nephoscopic Observations," Meteorol. i gidrologiya,

The author's purpose is to increase the accuracy of pilot-balloon observations on the height of clouds that do not form a continuous layer. With this aim he proposes to determine the height of a cloud as the height at which the direction and speed of the wind according to the pilot balloon coincides with those of nephoscopic observations. For the nephoscopicizing he proposes that the pilot-balloon theodolite also be applied. The author explains in considerable detail the method of observation and the method of handling of the data obtained during parallel nephoscopic and pilot-balloon observation. In 70% of the cases, as tests showed, the method gives rather definite results.  
(RZhGeol, No 5, 1954)

SO: Sum No. 568, 6 Jul 55

KOBELEV, K. A.

*Sup (D)*

Meteorological Abst.  
Vol. 4 No. 11  
Nov. 1955  
Meteorological  
Observations and  
Instruments

4.11-51 551.507.3:598.65:551.506.821  
KobeleV, K. A., Golubezond. [A "pigeon"-sonds.] Meteor-  
ologija i Gidrologija No. 8:26-27, 1952. DLD--For  
more frequent sounding of the lower atmosphere at Riga  
Observatory the author designed a special light-weight  
meteorograph. The instrument (weight is about 42 gr) is  
located in a special box on the back of a pigeon which is  
raised by pilot balloon. When the Ruckford fuse holding  
the boxbottom burns out it frees the pigeon with the  
meteorograph. Usually the pigeon comes back from a height  
of 1 km in 20-30 min. and from a height of 4-5 km in 1.5-2  
or more hours. The accuracy of the author's instrument  
was  $\pm 1.7^{\circ}\text{C}$ . Subject Headings: 1. Pigeon meteorograph  
2. Riga Observatory, Latvia.--M.T.S.



KOBELEV, I.A.

Method of determining the altitude of individual clouds on the  
basis of pilot balloon data and nephoscopic observations. Meteor.  
1 gidrol. no.9:45-47 8-0 '53. (MIRA 8:9)  
(Clouds)

AKHMEDOV, I. M.; KOBEL'EV, L. G.

Bee Culture - Queen Rearing

Artificial production of queens. Pchshlevodstvo 29 No. 10, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

KOBELEV, L. Ya., Cand Phys-Math Sci -- "Certain problems of <sup>1</sup>the system of  
interacting particles." Sverdlovsk, 1961 (Acad Sci USSR. Ural Affiliate).  
(KL, 4-61, 183;

-17-

VINSKY, S. V., KOBLEV, L. YA., MEDVINOV, K. P.

Electromagnetism

Toward the theory of galvanomagnetic phenomena in ferromagnetic materials. Izv. AN SSSR.  
Ser. fiz. 16 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

KORNEEV, L.Ya.

Taking correlation into account in a system of interacting particles.  
Izv. vys. ucheb. zav.; Fiz. no.1:68-77 '58. (MIRA 11:6)

1. Ural'skiy gosuniversitet imeni A.M. Gor'kogo.  
(Particles, Elementary) (Quantum theory)

AUTHOR: Kobelev, L.

80V/126-6-2-24/34

TITLE: On the Description of Mutually Interacting Particles by Means of Green's Function (Ob opisani sistem vzaimodeystvuyushchikh chastits s pomoshch'yu funktsiy Grina)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 2, pp 354-356 (USSR)

ABSTRACT: A system of  $N(N \gg 3)$  charged non-relativistic Fermi particles interacting through a Bose field is considered. The particles may, for example, be electrons in an electromagnetic field. In the self-consistent field approximation the probability of finding an electron at  $x_j$  will be the same and hence the electromagnetic field produced by all the particles at  $x_j$  (except the  $j$ -th particle) is determined by the 4-potential  $(\hbar/2\pi = 0 = 1)$

$$\square A_0(x_j) = e\phi^*(x_j)\phi(x_j); \square A_1(x_j) = e(\phi^*(x_j)\nabla_1\phi(x_j) - \phi(x_j)\nabla_1\phi^*(x_j)) \frac{1}{2\pi}; x = \{\vec{x}, it\}; i = 1, 2, 3, \quad (1)$$

Card 1/3

SOV/126-6-2-24/34

On the Description of Mutually Interacting Particles by Means of Green's Function

where  $\phi(x)$  is the wave function for an electron of the system which interacts with the self-consistent field of the remaining particles. In other words,  $A_\mu(x)$  ( $\mu=0,1,2,3$ ) is the mean potential obtained by "smearing" out the charge of the electrons over all space and with the same charge density. Formally, this means that one may treat the equation of motion of an electron in the self-consistent field as an equation of motion of a "quasi-particle" moving in a "natural electromagnetic field". The "natural electromagnetic field" is the average electromagnetic field produced by all the particles of the system and the "quasi-particle" corresponds to an electron whose mass is modified by the interaction with the self-consistent field of the system and other fields. With this approach to the problem of a system of particles with a self-consistent interaction, the system may be described by Green's functions obtained from Schwinger's dynamical principle and which satisfy Schwinger's equations with a suitable choice of the Lagrangian. The self-consistent field equations obtained using Green's

Card 2/3

On the Description of Mutually Interacting Particles by Means of  
Green's Function

SOV/126-6-2-24/34

functions are generalisations of the Hartree-Fock equations since they take into account virtual transitions in electron scattering processes in the self-consistent field of the system. Professor S. V. Vonsovskiy is thanked for his advice. There are 5 references, 2 of which are Soviet, 2 English, 1 German.

ASSOCIATION: Ural'skiy gosuniversitet imeni A. M. Gor'kogo  
(Ural State University imeni A. M. Gor'kiy)

SUBMITTED: March 30, 1957

Card 3/3

1. Particles--Motion
2. Mathematics--Applications
3. Functions--Applications



KOBELEV - L.

**AUTHORS:** Voloshinskiy, A. and Kobelev, L. SOV/126-6-2-25/34  
**TITLE:** On the Dispersion Relation for an Electron Plasma  
(O dispersionnom sootnoshenii dlya elektronnoy plazmy)  
**PERIODICAL:** Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 2,  
pp 356-357 (USSR)  
**ABSTRACT:** The dispersion relation for an electron plasma which was  
first obtained by Vlasov (Ref.1) was also discussed by  
Klimantovich et alii (Ref.2) and Bohm (Ref.3). In all  
these papers the plasma was considered in the self-  
consistent field approximation. Virtual interaction of  
electrons with the self-consistent field when electrons  
are scattered by the field was not taken into account.  
The problem is now re-examined and it is shown that in  
the general case the dispersion relation is determined  
not only by the form of the electron Green's function  
but also by the form of the photon Green's function.  
The dispersion relation is given in an explicit form.

Card 1/2

On the Dispersion Relation for an Electron Plasma SOV/126-6-2-25/34

S. V. Vonsovskiy (Corresponding Member of the Ac.Sc.USSR)  
and V. L. Bonch-Bruyevich are thanked for their help.  
There are 8 references, 4 of which are Soviet, 4 English.

ASSOCIATION: Ural'skiy gosuniversitet imeni A. M. Gor'kogo  
(Ural State University imeni A. M. Gor'kiy)

SUBMITTED: April 1, 1957

Card 2/2 1. Electron gas--Properties 2. Electrons--Scattering

SOV/126-6-4-26/34

AUTHOR: Kobelev, L.Ya.

TITLE: Taking into Account Correlation in a System of Particles  
by Means of the Two-Particle Green's Function (Ob-  
ucheta korrelyatsii v sisteme chastits s pomoshch'yu  
dvukhchastichnoy funktsii grina)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6,  
Nr 4, pp 750-753 (USSR)

ABSTRACT: The assembly of non-relativistic electrons may be  
described completely by means of the Green's function  $G_N$   
of the system. The function  $G_N$  makes it possible to  
determine the state of the system at any time if the  
wave-function of the initial state is known. In the  
self-consistent field approximation, behaviour of a  
system of particles is described by the one-particle  
Green's function, determined by the dynamic principle  
of Schwinger (Ref.3). The processes of virtual  
interaction of an electron with the self-consistent  
field are allowed for but, because the Green's function  
is of the one-particle type, correlation between the  
electrons is not taken into account. This inter-electron

Card 1/2

Taking into Account Correlation in a System of Particles by Means  
of the Two-Particle Green's Function

SOV/126-6-4-26/34

correlation is introduced by means of a "chain" of one-particle, two-particle etc. Green's functions, similar to the chains of distribution functions used in the theory of kinetic equations (Ref.5,6). The present paper deals with the problem of correlation of electrons by means of the two-particle Green's functions. The paper is entirely theoretical. Acknowledgments are made to Professor S.V.Vonsovskiy for his advice. There are 7 references of which 4 are Soviet, 2 English and 1 Japanese.

ASSOCIATION: Ural'skiy Gosudarstvennyy Universitet, imeni A.M. Gor'kogo  
University imeni A.M. Gor'kiy) (Ural State

SUBMITTED: 16th April 1957.

Card 2/2